OPEN SECTION

E&I5/1

CITY OF DARWIN

ENVIRONMENT & INFRASTRUCTURE COMMITTEE

TUESDAY, 24 MAY 2016

MEMBERS: Member S J Niblock (Chairman); The Right Worshipful, The Lord

Mayor, Katrina Fong Lim; Member R M Knox; Member R Want de

Rowe: Member E L Young.

OFFICERS: Chief Executive Officer, Mr B Dowd; General Manager Infrastructure,

Mr L Cercarelli; Executive Manager, Mr M Blackburn; Manager Technical Services, Mrs N Nilon; Manager Design, Planning & Projects, Mr D Lelekis; Manager Infrastructure Maintenance, Mr K Smith; Manager Climate Change & Environment, Ms S Gamble;

Executive Assistant, Ms A Smit.

Enquiries and/or Apologies: Arweena Smit E-mail: a.smit@darwin.nt.gov.au - PH: 89300 685 OR Phone Committee Room 1, for Late Apologies - PH: 89300 519

Committee's Responsibilities

- Asset Management
- Building Services
- Cemeteries
- Mosquito control
- Operations
- Parks & Reserves
- Pathways
- Road maintenance
- Sporting Areas
- Stormwater Drainage Maintenance
- Street Cleaning
- Urban Forest Management

- Infrastructure Projects
- Infrastructure Maintenance
- Design
- Planning
- Road Construction and Traffic Management
- Urban Enhancement
- Climate Change and Environment
- Waste Management
- Outdoor Dining
- Signage

THAT effective as of 16 April 2012 Council, pursuant to Section 32 (2)(b) of the Local Government Act 2008, hereby delegates to the Environment & Infrastructure Committee the power to make recommendations to Council and decisions relating to Environment & Infrastructure matters within the approved budget.

OPEN SECTION

E&I5/2

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OPEN SECTION

E&I5/4

Environment & Infrastructure Committee Meeting - Tuesday, 24 May 2016

1.	MEETING DECLARED OPEN
The Ch	airman declared the meeting open at p.m.
2.	APOLOGIES AND LEAVE OF ABSENCE Common No. 2695036
2.1	<u>Apologies</u>
()	
THAT t	he apology from Member, be received.
DECISI	ION NO.21\() (24/05/16)
2.2	Leave of Absence Granted
Nil	
3.	ELECTRONIC MEETING ATTENDANCE Common No. 2221528
3.1	Electronic Meeting Attendance Granted
()	
Decisio Electro	Council note that pursuant to Section 61 (4) of the Local Government Act and no No. 21\0009 – 16/04/12, the following member was granted permission for nic Meeting Attendance at this the Environment & Infrastructure Committee held on Tuesday, 24 May 2016:
	• Member
DECISI	ION NO.21\() (24/05/16)

OPEN SECTION

E&I5/5

Environment & Infrastructure Committee Meeting - Tuesday, 24 May 2016

4. DECLARATION OF INTEREST OF MEMBERS AND STAFF

5. CONFIDENTIAL ITEMS

Common No. 1944604

5.1 Closure to the Public for Confidential Items

() COMMITTEE'S DECISION

THAT pursuant to Section 65(2) of the Local Government Act and Regulation 8 of the Local Government (Administration) Regulations the meeting be closed to the public to consider the following Items:-

<u>ltem</u>	<u>Regul</u>	<u>ation</u>	Reason
C17.1.	1 8(c)(iv))	information that would, if publicly disclosed, be likely to prejudice the interests of the council or some other person
DECISION NO	.21\()	(24/05/16	3)

6. WITHDRAWAL OF ITEMS FOR DISCUSSION

() COMMITTEE'S DECISION

THAT the Committee resolve under delegated authority that all Information Items and Officers Reports to the Environment & Infrastructure Committee Meeting held on Tuesday, 24 May 2016 be received and considered individually.

DECISION NO.21\() (24/05/16)

OPEN SECTION

E&I5/6

Environment & Infrastructure Committee Meeting - Tuesday, 24 May 2016

7. CONFIRMATION OF MINUTES PERTAINING TO THE PREVIOUS ENVIRONMENT & INFRASTRUCTURE COMMITTEE MEETING

() COMMITTEE'S DECISION

THAT the Committee resolve that the minutes of the previous Environment & Infrastructure Committee Meeting held on Tuesday, 19 April 2016, tabled by the Chairman, be received and confirmed as a true and correct record of the proceedings of that meeting.

DECISION NO.21\() (24/05/16)

- 8. BUSINESS ARISING FROM THE MINUTES PERTAINING TO THE PREVIOUS ENVIRONMENT & INFRASTRUCTURE COMMITTEE MEETING
- 8.1 <u>Business Arising</u>
- 9. DEPUTATIONS AND BRIEFINGS

Nil

OPEN SECTION

E&I5/7

Environment & Infrastructure Committee Meeting - Tuesday, 24 May 2016

10.1 OFFICERS REPORTS (ACTION REQUIRED)

ENCL: ENVIRONMENT & INFRASTRUCTURE

NO COMMITTEE/OPEN AGENDA ITEM: 10.1.1

EROSION ISSUES NEAR RAPID CREEK FOOTBRIDGE

REPORT No.: 16TS0032 NK:jg COMMON No.: 2072884 DATE: 24/05/2016

Presenter: Manager Design Planning & Projects, Drosso Lelekis

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to inform Council of the estimated costs associated with addressing erosion in the vicinity of the Rapid Creek footbridge.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

3 Environmentally Sustainable City

Outcome

3.3 Conserve and protect the Darwin environment

Key Strategies

3.3.1 Advocate for the conservation of natural systems

KEY ISSUES

- The area of open space near the Rapid Creek Footbridge is being eroded by storm and tidal activity.
- The erosion has not been previously identified.
- The intertidal zone is managed by the Northern Territory Government (NTG).
- The estimated cost of the works is \$300,000.
- It is recommended that Council write to the NTG requesting their action to prevent further erosion of the area which may impact on Council land.

REPORT NUMBER: 16TS0032 NK:jg

SUBJECT: EROSION ISSUES NEAR RAPID CREEK FOOTBRIDGE

RECOMMENDATIONS

THAT it be a recommendation to Council:-

A. THAT Report Number 16TS0032 NK:jg entitled Erosion Issues Near Rapid Creek Footbridge, be received and noted.

B. THAT the Chief Executive Officer write to the Northern Territory Department of Lands, Planning and the Environment and the Parks and Wildlife Commission of the NT, requesting that they undertake appropriate action to prevent the erosion of crown land (Rapid Creek) extending into and impacting on Council's open space being Lots 9353 and 9647.

BACKGROUND

At the Ordinary Council Meeting held 8 December 2015, Council resolved as follows:

20.3 <u>Erosion Issues near Rapid Creek Footbridge</u>

Common No. 2072884

(Knox/Mitchell)

THAT a report be prepared on the costs of addressing the erosion issues in the vicinity of the Rapid Creek footbridge.

DECISION NO.21\4016 (08/12/15) Carried

This report is in response to the above mentioned decision.

DISCUSSION

The City of Darwin is responsible for the management of parts of the Darwin coastline, namely foreshore open spaces within the municipal boundary, and as such seeks long-term outcomes for the coastline to ensure the protection of both private and public infrastructure. The balance of the coastline is either crown land or privately owned.

REPORT NUMBER: 16TS0032 NK:jg

SUBJECT: EROSION ISSUES NEAR RAPID CREEK FOOTBRIDGE



Figure 1 Area of erosion near the Rapid Creek Footbridge

The identified area of erosion adjacent to the Rapid Creek footbridge is shown as the dashed line in **Figure 1** above and is occurring along the edge of the open space adjacent the intertidal zone and mouth of Rapid Creek. Based on aerial photography and cadastre information the area of land currently being eroded is NTG land, with elements of the land managed by Crown Land and a portion adjacent to the bridge managed by the Parks and Wildlife Commission of the NT.

If the erosion continues it is likely to impact on Council land, being open space Lots 9353 and 9647. The current closest point of erosion is four metres from Council owned public infrastructure (shared path) and 78 metres to private infrastructure (adjacent private property).

There is a risk to Council that if the intertidal area continues to erode, Council land and infrastructure will be impacted.

Council has sought advice on possible treatments and it has been suggested that a rock revetment such as that recently constructed by Council adjacent to Kurrajong Crescent, Nightcliff, may be appropriate for this location. The full extent of works has not been scoped, however it is estimated that such a treatment in this location would be in the order of magnitude of \$300,000.

As the area is within the intertidal zone and not owned by Council, it is recommended that the NTG is approached to undertake and/or pay for the required works to prevent any future impact on Council's land and infrastructure.

CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

- Team Leader Capital Works
- Manager Climate Change and Environment

REPORT NUMBER: 16TS0032 NK:jg

SUBJECT: EROSION ISSUES NEAR RAPID CREEK FOOTBRIDGE

In preparing this report, the following External Parties were consulted:

BMT WBM

POLICY IMPLICATIONS

No Policy Implications have been identified.

BUDGET AND RESOURCE IMPLICATIONS

A treatment such as the Kurrajong Crescent rock revetment in this location would be in the order of magnitude of \$300,000.

Council has not identified this project in a forward works program.

Given the land tenure in this location, it is considered that the NTG should take appropriate action to protect Council public land and infrastructure at no cost to Council.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

Should appropriate measures to manage coastal erosion at this location not be undertaken, there is a risk that damage to public infrastructure may result, including the erosion of Council land. The risk of erosion at this location causing damage to private infrastructure is considered to be low at the time of writing this report.

ENVIRONMENTAL IMPLICATIONS

Works should be undertaken with consideration of appropriate environmental and design requirements.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

DROSSO LELEKIS

MANAGER DESIGN PLANNING &
PROJECTS

LUCCIO CERCARELLI GENERAL MANAGER INFRASTRUCTURE

For enquiries, please contact Drosso Lelekis on 89300414 or email: d.lelekis@darwin.nt.gov.au.

ENCL: ENVIRONMENT & INFRASTRUCTURE

YES COMMITTEE/OPEN AGENDA ITEM: 10.1.2

REVIEW OF POLICY NO. 040 - DEVELOPER CONTRIBUTION PLANS

Presenter: Manager Technical Services, Nadine Nilon

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to present to Council a reviewed and updated Policy No 040 Developer Contribution Plans.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

5 Effective and Responsible Governance

Outcome

5.4 Effective leadership and advocacy

Key Strategies

5.4.2 Advocate on behalf of the community

KEY ISSUES

- The current Developer Contribution Plans Policy was adopted 23 February 2010 and the policy is now due for review.
- The Policy includes the current (at the time) Council Contribution Plans, most of which are now redundant as they have been replaced with new Developer Contribution Plans.
- It is not a legislative requirement to include Contribution Plans within a Policy as they exist as independent documents under the Planning Act.
- All current Contributions Plans are available on Council's website.
- A separate project is underway reviewing Developer Contribution Plans, however the clarification of the existing Policy is out of date and requires updating independent of this project.
- This report summarises the change to the Policy in each of these areas.

REPORT NUMBER: 16TS0067 NN:tz

SUBJECT: REVIEW OF POLICY NO. 040 - DEVELOPER CONTRIBUTION PLANS

RECOMMENDATIONS

THAT it be a recommendation to Council:

A. THAT Report Number 16TS0067 NN:tz entitled Review of Policy No. 040 Developer Contribution Plans, be received and noted.

- B. THAT Council endorse the City of Darwin Policy No. 040 Contribution Plans as shown in **Attachment A** of Report Number 16TS0067 NN:tz entitled Review of Policy No 040 Developer Contribution Plans.
- C. THAT Council rescind City of Darwin Policy No. 040 Developer Contribution Plans (adopted 23/02/2010), retaining the following Contribution Plans as independent documents:
 - a. Stormwater Drainage Works CP2003/01B Stuart Park.
 - b. Stuart Park Road Works (Dinah Beach & Duke Street).

BACKGROUND

Council's website includes the following statement in regards to policies;

"Policies are a representation of the values that Council will take into consideration during its decision making process. It is the Elected Members role to weigh Council matters and decide upon policies which the council administration will carry through. Policies are in place to fulfil the community's needs and are continually being reviewed and updated."

Council has a current Policy No 040; Developer Contribution Plans, which was identified for review. This policy has been reviewed and the updated Policy presented within this report. The existing policy has not been attached due to its size (107 pages), however it can be viewed on Councils website (via this <u>link</u>) or through www.darwin.nt.gov.au/council/council-policies.

DISCUSSION

Contribution Plans are able to be created by Council for contribution towards infrastructure that is a result of the development of an area. The Planning Act details where and how the plans can be developed, including how rates can be calculated.

All Contribution Plans are adopted by Council through the Planning Act requirements that include a 28 exhibition period and gazettal of the plan under the Act.

The existing Policy for Developer Contribution Plans includes 8 Plans within the Policy, all included in detail;

- Stormwater Drainage Works CP2006/01D Darwin Zone B.
- Stormwater Drainage Works CP2006/02D Darwin Zone E.
- Stormwater Drainage Works CP2006/03D Darwin Zone F.
- Stormwater Drainage Works CP2006/04D Darwin Zone G.

REPORT NUMBER: 16TS0067 NN:tz

SUBJECT: REVIEW OF POLICY NO. 040 - DEVELOPER CONTRIBUTION PLANS

Stormwater Drainage Works CP2006/05D – Darwin Zone H.

- Stormwater Drainage Works CP2006/06D Darwin Zone L.
- Roadworks CP2003/01A Stuart Park.
- Stormwater Drainage Works CP2003/01B Stuart Park.

Of these 8 plans, only the Stuart Park Plans remain in place currently as the 6 Darwin CBD Plans were replaced in 2015 with new Plans.

At this point in time there are 13 adopted Contribution Plans gazetted by Council;

- CBD Parking Strategy and Contribution Plan.
- Car Parking Developer Contribution Plan.
- Lee Point Road Roadwork Developer Contribution Plan.
- Darwin CBD Stormwater CP 2015-01 Area A.
- Darwin CBD Stormwater CP 2015-02 Area B.
- Darwin CBD Stormwater CP 2015-03 Area C.
- Darwin CBD Stormwater CP 2015-04 Area D.
- Darwin CBD Stormwater CP 2015-05 Area E.
- Stuart Park Stormwater Drainage CP 2014/1 SWD Policy Area A.
- Stuart Park Stormwater Drainage CP 2014/2 SWD Policy Area B.
- Stuart Park Stormwater Drainage CP 2014/3 SWD Policy Area C.
- Stuart Park Stormwater Drainage CP 2014/4 SWD Policy Area D.
- Stormwater Drainage Works CP2003/01B Stuart Park (Frances Park area).
- Stuart Park Road Works (Dinah Beach & Duke Street).

These plans do not have to be within a Policy, they act as standalone documents under the Planning Act.

The Developer Contribution Plan Policy has been updated to remove the actual contribution plans and only reflect the Council Policy of where, when and how contributions plans will be developed. By doing this, the contribution plans exist as standalone documents for the works and period required, and the Policy provides the overarching values that Council is looking to achieve when creating contribution plans.

The updated draft Policy has been provided in **Attachment A**. A tracked changes version has not been provided due to the significant changes made and the significant length of the document.

A separate project is underway reviewing Council's contribution plans, both existing and expected future plans and consideration of alternate funding methods. Separate reports will be provided to Council in relation to this project, expected to be presented later in 2016. It is not expected that this updated Developer Contribution Plan Policy would change as a result of this process, however if required it will be presented to Council at that time. It was considered that the current updating of the Policy was required in the short term to remove the redundant DCP's from the Policy and reflect current practice.

REPORT NUMBER: 16TS0067 NN:tz

SUBJECT: REVIEW OF POLICY NO. 040 - DEVELOPER CONTRIBUTION PLANS

An emerging issue in the area of infrastructure investment is "value capture". Value Capture supports decision-making by focussing a self-supporting and synergistic infrastructure investment. Value Capture funding methods identify and collect an equitable portion of the value released through public improvements. This results in the community that creates this value share in the wealth it generates.

Value Capture is not a new tax but it is an alternative way of allocating uplift from public investments. That is, it captures revenues that would not otherwise have existed without the public investment.

This issue will be monitored for its applicability to the City of Darwin and its future potential in the delivery of infrastructure.

CONSULTATION PROCESS

This report was considered by the Executive Leadership Team on 6 May 2016 and is now referred to Environment and Infrastructure Committee for consideration.

The review of this Policy does not affect the Contribution Plans themselves, nor changes Council Policy on any aspects of the Contribution Plans, and as such it is not recommended that community consultation is required. The updated Policy and Contribution Plans will all be available on Council's website, as they are currently.

POLICY IMPLICATIONS

This process is a review of Policy No 041, Developer Contribution Plans and if the draft in **Attachment A** is adopted it will become the new policy. The Contribution Plans in existence currently will remain.

BUDGET AND RESOURCE IMPLICATIONS

The reviewed Policy will have no impact on current or future budgets or resourcing. The Policy review was completed within existing operational budgets.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

There are no risk or legal implications as a result of adopting the updated policy.

The Policy has been updated to align with current procedures and does not conflict with the current legislative requirements for Developer Contribution Plans.

ENVIRONMENTAL IMPLICATIONS

There are no environmental implications as a result of adopting the updated policy.

REPORT NUMBER: 16TS0067 NN:tz

SUBJECT: REVIEW OF POLICY NO. 040 - DEVELOPER CONTRIBUTION PLANS

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

NADINE NILON
MANAGER TECHNICAL
SERVICES

LUCCIO CERCARELLI GENERAL MANAGER INFRASTRUCTURE

For enquiries, please contact Nadine Nilon on 89300417 or email: n.nilon@darwin.nt.gov.au.

Attachments:

Attachment A: Draft proposed Policy No 040 – Developer Contribution Plans

policy

Title: Developer Contribution Plans

Policy No: 040

Adopted By: Council

Next Review Date: 23/02/2014

Responsibility: General Manager Infrastructure

Document Number: 2118388

Version	Decision Number	Adoption Date	History
1	20\2501	23/02/10	Adopted
2			
3			
4			

1 Policy Summary

This policy sets out the City of Darwin position regarding development contributions (contribution plans) for the provision of infrastructure in new and established areas of the Municipality.

2 Policy Objectives

The objectives of this policy are -

- to promote the efficient and effective provision of public infrastructure and facilities to meet the demands arising from new growth and development;
- to ensure that development contributions are necessary and relevant to the development to be permitted and are charged equitably among those benefiting from the infrastructure and facilities to be provided;
- to ensure consistency and transparency in the system for apportioning, collecting and spending development contributions;
- to ensure the social well-being of communities arising from, or affected by, development.

3 Background

The City of Darwin plans ahead to ensure that:

- infrastructure needed by the community is provided when and where it is needed, and;
- funds are available to provide the infrastructure.

Public infrastructure is funded through various sources including Australian and Territory Governments, Council and developer contributions.

policy

When an area is experiencing pressure on existing infrastructure where new or upgraded infrastructure is required and there is development occurring that is contributing to the requirement for works, Council is able to develop Contribution Plans to ensure that developers contribute equitably to the infrastructure they are impacting on.

Contribution Plans ensure that City of Darwin is able to receive an equitable contribution from the Developer when land is developed towards the provision of infrastructure that is proportionate to the anticipated future use of the infrastructure that is attributable to the development of that land. This is designed to minimise the cost of infrastructure that is required to be funded from existing revenue.

4 Policy Statement

Council may identify the need for a contribution plan to be developed prior to significant development occurring, or as a result of a proposed development in order to ensure infrastructure funding is provided.

Council will consider delivery of associated infrastructure works in line of a financial contributions only where prior approval of Council has been granted.

Development contributions may be sought for, but not limited to:

- a new item of infrastructure;
- an upgrade in the standard of provision of an existing item of infrastructure;
- an extension to existing infrastructure.

Council will consider the following principles when developing a contribution plan:

- need and nexus;
- transparency;
- equity;
- certainty;
- efficiency;
- consistency;
- consultation;
- accountability

The contributions are for the initial capital requirements only and not for ongoing maintenance and for operating costs of the infrastructure.

5 Legislation, terminology and references

Legislation –Northern Territory Planning Act.

Definitions – as provided within the Northern Territory Planning Act and each Contribution Plan.

10.1.3

ENCL: ENVIRONMENT & INFRASTRUCTURE

YES COMMITTEE/OPEN AGENDA ITEM:

DARWIN BIKE PLAN - REVIEW OF IMPLEMENTATION PLAN 2015-2020

REPORT No.: 16TS0094 DL:jg COMMON No.: 2476277 DATE: 24/05/2016

Presenter: Manager Design Planning & Projects, Drosso Lelekis

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to provide Council with an updated Darwin Bike Plan Implementation Plan 2016 – 2021 for endorsement, subject to a recent Council budget decision.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

2 Vibrant, Flexible and Tropical Lifestyle

Outcome

2.1 Improved access and connectivity

Key Strategies

2.1.1 Improve the pathway and cycle networks and encourage cycling and walking

KEY ISSUES

- A previous report presenting a revised Implementation Plan was laid on the table at the Environment and Infrastructure Committee Meeting of 19 April 2016 on the basis that the Committee Members required more time to assess the report and its recommendations.
- Since the previous report was laid on the table, Council has adopted protected cycle lanes for incorporation at the new Daly Street/Smith Street signalised intersection to be funded from the Shared Path Program.
- This recent decision requires the draft five year Implementation Plan 2016/2021 to be reviewed to incorporate this amendment.

REPORT NUMBER: 16TS0094 DL:jg

SUBJECT: DARWIN BIKE PLAN – REVIEW OF IMPLEMENTATION PLAN 2015-2020

RECOMMENDATIONS

THAT it be a recommendation to Council:-

A. THAT Report Number 16TS0094 PH:jg entitled Darwin Bike Plan - Review Of Implementation Plan 2015 – 2020, be received and noted.

B. THAT Council adopt the revised five year Implementation Plan provided at **Attachment A** to Report Number 16TS0094 PH:jg entitled Darwin Bike Plan – Review of Implementation Plan 2015 – 2020, subject to budget provision.

BACKGROUND

The previous report presenting a revised Implementation Plan was laid on the table at the Environment and Infrastructure Committee Meeting of 19 April 2016 on the basis that the Committee Members required more time to assess the report and its recommendations.

10.1.2 <u>Darwin Bike Plan - Review Of Implementation Plan 2015 - 2020</u> Report No. 16TS0050 PH; jg (18/04/16) Common No. 2476277

Procedural Motion

(Niblock/Knox)

THAT this item lay on the table until the next Environment & Infrastructure Committee Meeting, Tuesday, 24 May 2016.

Carried

THAT it be a recommendation to Council:-

- C. THAT Report Number 16TS0050 PH:jg entitled Darwin Bike Plan Review Of Implementation Plan 2015 2020, be received and noted.
- D. THAT Council endorse and implement the revised five year Implementation Plan provided at Attachment A to Report Number 16TS0050 PH:jg entitled Darwin Bike Plan Review of Implementation Plan 2015 2020, subject to budget provision.

REPORT NUMBER: 16TS0094 DL:jg

SUBJECT: DARWIN BIKE PLAN – REVIEW OF IMPLEMENTATION PLAN 2015-2020

At the 2nd Ordinary Council Meeting of 26 April 2016 Council resolved as follows:

16.1.1 <u>Daly Street/Smith Street Intersection Upgrade - Additional Information</u>

Report No. 16TS0085 DL:jg (26/04/16) Common No. 2116605

(Niblock/Knox)

A. THAT Council endorse the on-road Protected Cycle Lane configuration as its preferred treatment for the Daly Street / Smith Street signalised intersection.

B. THAT Council endorse the upgrading of the intersection of Daly and Smith Street to a signalised intersection with the provision of on-road cycling facilities.

DECISION NO.21\4350 (26/04/16) Carried

ACTION: MGR DESIGN & PLANNING

NOTE: GM INFRA

This report presents a revised Bike Plan Implementation Plan to take into account Council's decision to implement protected cycle lanes at the new Daly Street/Smith Street signalised intersection in 2016/2017, for Council's endorsement, subject to budget provision, and provides additional information.

DISCUSSION

The Bike Plan – Implementation Plan has been reviewed with consideration of Council's decision relating to the Daly Street and Smith Street intersection (Attachment A).

The changes to the Plan are within the Infrastructure Projects elements. These include the following elements:

Revised Year 1 Projects (2016/2017)

- 1. Daly Street (Stage 1) Provision of a Protected Cycle Lane configuration at the new signalised Smith Street/Daly Street intersection. Provision of on-road cycle facilities to coincide with upgrading of the existing intersection from a roundabout configuration to a signalised intersection.
- 2. Sabine Road Shared Path (Stage 1) replacement of existing footpath on one side of road with a shared path from McMillans Road to Tong Luck Street addresses a gap identified in Figure 1-2 of Appendix E of the "Pedalling at the Top-Bicycle Baseline Report" and allows a further area of the municipality to be within 400 metres of a bicycle facility. Also provides connectivity to school in the area. This link was also identified in the NT Planning Commission's Darwin Mid Suburbs Draft Area Plan.
- 3. Progress Drive / Dick Ward Drive Crash Hot Spot. These areas represent complex issues requiring investigation and planning in order to identify

REPORT NUMBER: 16TS0094 DL:jg

SUBJECT: DARWIN BIKE PLAN – REVIEW OF IMPLEMENTATION PLAN 2015-2020

appropriate solutions for consideration and implementation. It is also likely the solutions will have significant costs and take time to resolve.

Of the three hot spots identified, two are already under some level of consideration. It is proposed to provide funding to allow for the development of concept solutions and cost estimates for the remaining hot spot being Progress Drive / Dickward Drive. This will allow Council to undertake forward planning.

Revised Year 2 Projects (2017/2018)

- 1. Sabine Road Shared Path (Stage 2) replacement of existing footpath on one side of road with a shared path from Tong Luck Street to Trower Road. Completes the route to address a gap identified in Figure 1-2 of Appendix E of the "Pedalling at the Top-Bicycle Baseline Report" and allows a further area of the municipality to be within 400 metres of a bicycle facility. Also provides connectivity to schools in the area.
- 2. Parer Drive Shared Path (Stage 1)- replacement of existing footpath on one side of road with a shared path from Trower Road to Malay Road. Addresses a gap identified in Figure 1-2 of Appendix E of the "Pedalling at the Top-Bicycle Baseline Report" and allows a further area of the municipality to be within 400 metres of a bicycle facility. Also provides connectivity to school and shops in the area. This link was also identified in the NT Planning Commission's Middle Schools Area Plan.

Revised Year 3 Project (2018/2019)

- Parer Drive Shared Path (Stage 2)- replacement of existing footpath on one side of road with a shared path from Malay Road to Lee Point Road. Completed the route to address a gap identified in Figure 1-2 of Appendix E of the "Pedalling at the Top-Bicycle Baseline Report" and allows a further area of the municipality to be within 400 metres of a bicycle facility. Also provides connectivity to schools in the area.
- 2. Daly Street (Stage 2).

Revised Year 4 Project (2019/2020)

 Daly Street (Stage 3) –Mid-block between Mitchell Street and Smith Street to Woods Street This is a 2017/18 and 2018/2019 (Year 3 and 4) project in the current Implementation Plan (2015-2020). It is recommended that it be pushed forward to 2019/2020 in the revised proposed Implementation Plan for the above mentioned reasons.

Revised Year 5 Projects (2020/2021)

- 1. Daly Street (Stage 4).
- 2. Dinah Beach Road Shared Path new along Dinah Beach Road. Provides linkage between Tiger Brennan Drive and Stuart Highway. This path is included within the scope of the overall Dinah Beach Road upgrade project to

REPORT NUMBER: 16TS0094 DL:jg

SUBJECT: DARWIN BIKE PLAN – REVIEW OF IMPLEMENTATION PLAN 2015-2020

be delivered into the future, as part of the Federal Governments Roads to Recovery program (2014/2015 to 2018/2019) when sufficient funding for this overall project is secured. To date partial funding to the value of \$1,978.222 has been endorsed by Council for the reconstruction of Dinah Beach Road.

3. East Point Shared Path Upgrade – upgrade existing path to address issues identified in audit. This is a 2019/2020 (Year 5) project in current Implementation Plan (2015-2020).

Council's attention is drawn to the following key points:

- A number of projects have been staged to accommodate the budget allocations within the Long Term Financial Plan.
- Provision of design funding to allow development and forward programs to address existing crash hotspots identified in the Darwin Bike Plan Baseline Report.
- The crash hot spots identified were:
 - (i) Progress Drive / Dick Ward Drive;
 - (ii) Daly Street already being addressed in Plan;
 - (iii) Roads adjacent to Casuarina Square Council's roads are being reviewed as part of Bradshaw Terrace Urban Design Project which will identify bike treatments.
- As part of the Darwin City Centre Masterplan works Council is undertaking urban concept design work for Daly Street including bike treatments. Based on the time frame, processes required, and budget cycle for this project, allowances for further work in Daly Street have been made in years three, four and five. The staging elements will be further identified once the Urban Design Concept is completed.
- Based on likely costs of work within Daly Street, there will be a requirement for funding in future years beyond this five year plan based on current budget forecasts.
- Identified need for education of the community on the protected lane at the Daly Street intersection will be funded from the existing education initiatives within the Plan.

The Implementation Plan is considered to provide an appropriate balance between the key elements as per the intent of the adopted Bike Plan.

CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

Civil Engineering Officer

Should the proposed revised Implementation Plan be adopted, a Level 1 Consultation (Information) process in accordance with the City of Darwin Policy Number - 25 – Community Consultation, to inform stakeholders, will be implemented.

REPORT NUMBER: 16TS0094 DL:jg

SUBJECT: DARWIN BIKE PLAN – REVIEW OF IMPLEMENTATION PLAN 2015-2020

POLICY IMPLICATIONS

The proposed revised Implementation Plan infrastructure projects are in line the visions set out in the Darwin Bike Plan 2015 – 2020. The proposed new Implementation Plan does not represent a significant shift in the City of Darwin's policies in regard to provisions for bike riding in the municipality of Darwin.

BUDGET AND RESOURCE IMPLICATIONS

Each year of the new proposed Implementation Plan has a funding allocation based on Council's Long Term Financial Plan (LTFP). A summary of allocations and costs in the revised proposed Implementation Plan is provided within the Discussion section of this report.

Should the LTFP values adopted in the future be different to those identified in this report, then projects within the Implementation Plan will be reviewed to reflect budget provisions.

Council will continue to seek external funding opportunities for Bike Plan projects.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

The safety of bike riders travelling along routes within the municipality is improved by providing safe on and off-road facilities and these facilities would likely encourage bike riding as an alternative safe mode of travel to the motor vehicle.

ENVIRONMENTAL IMPLICATIONS

Supporting alternative modes of transport to the motor vehicle, such as bicycles, would have positive environmental implications.

The expansion of Council's shared path network provides improved access and connectivity for the community.

REPORT NUMBER: 16TS0094 DL:jg

SUBJECT: DARWIN BIKE PLAN – REVIEW OF IMPLEMENTATION PLAN 2015-2020

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

DROSSO LELEKIS MANAGER DESIGN PLANNING & PROJECTS

LUCCIO CERCARELLI GENERAL MANAGER INFRASTRUCTURE

For enquiries, please contact Drosso Lelekis on 89300514 or email: d.lelekis@darwin.nt.gov.au.

Attachments:

Attachment A: Proposed Revised New Five Year Bike Implementation Plan (2016-

2021)

YEAR 1

2016/2017

LTCWP Allocation

\$ 560,865

Infrastructure Projects

Project	Details	Cons	truction Cost
Daly Street (Stage 1)	Provision of a protected cycle lane configuration at the new signalised Smith Street / Daly Street intersection	\$	387,000
Sabine Road (Stage 1)	McMillans Road to Tong Luck Street - Remove existing footpath on western side and replace with 2.5m wide shared path	\$	83,865
Progress Drive / Dick Ward Drive	Crash hot spot - Concept design and cost estimate development for further consideration and programming	\$	20,000
	Total	\$	490,865

Complementary Facilities

	Lead Agency/Partners	Estimated Facility Cost	Estimated Installation		Indica	tive Order of Costs
Bike Racks Minimum 20 new bike racks - approximately 20 bike parking spaces	City of Darwin and local organisations	\$500	\$500	\$1,000 per rack	\$	20,000
Wayfinding and Signage Implementation (including Share the Path messages)					\$	15,000
the rath messages)				Total	\$	35,000

		Lead Agency/Partners	Contri	dicative bution from of Darwin
Share the Road	Campaign Delivery	Northern Territory Government/City of	\$	10,000
Share the Road	Campaign Delivery	Darwin	ų.	10,000
		City of Darwin, Bicycle		
Ride to the Markets	Campaign Delivery	Groups and Market	\$	10,000
		Organisers		
		City of Darwin/Northern		
Ride to Work Day	Ongoing (ovisting budget)	Territory Government and	Evict	ing Budget
Activities/Breakfast	Ongoing (existing budget)	partners such as Bicycle	EXIS	ing buuget
		Network		
Encouragement Initiatives	Promotional Budget	City of Darwin	\$	7,500
Rider Surveys	Super Tuesday/Sunday	City of Darwin	\$	7,500
		Total	\$	35,000

YEAR 2

2017/2018

LTCWP Allocation

\$ 569,278

Infrastructure Projects

Project	Details	Const	truction Cost
Sabine Road (Stage 2)	Tong Luck Street to Trower Road Remove existing footpath on western side and replace with 2.5m wide shared path	\$	276,450
Parer Drive (Stage 1)	Trower Road to Malay Road arer Drive Remove existing footpath on southern side and replace with		
	Total	\$	499,278

Complementary Facilities

	Lead Agency/Partners	Estimated Facility Cost	Estimated Installation		Indica	ative Order of Costs
Wayfinding and Signage Implementation (including Share					\$	15,000
the Path messages)			4	Total	\$	15,000

		Lead Agency/Partners	Indicative Contribution from City of Darwin
"Ride Darwin Bikefest" Event	Concept Development and	City of Darwin/Northern	.
(possibly coordinated with Gran	Delivery	Territtory Government and	\$ 20,000
Fondo)		a range of stakeholders	
		Northern Territory	
Share the Road	Campaign Delivery	Government/City of	\$ 10,000
		Darwin	
Ride to the Markets	Campaign Delivery	City of Darwin, Bicycle Groups and Market Organisers	\$ 10,000
Ride to Work Day		City of Darwin/Northern	514 51.
Activities/Breakfast	Ongoing (existing budget)	Territory Government and	Existing Budget
Encouragement Initiatives	Promotional Budget	City of Darwin	\$ 7,500
Rider Surveys	Super Tuesday/Sunday	City of Darwin	\$ 7,500
		Total	\$ 55,000

YEAR 3

2018/2019

LTCWP Allocation

\$ 577,817

Infrastructure Projects

Project	Details		Construction Cost
Parer Drive (Stage 2)	Malay Road to Lee Point I Remove existing footpath 2.5m wide shared path	Road on southern side and replace with	\$ 177,555
Daly Street (Stage 2)	Provide on-road cycle lan using off-road space	es and improve conncectivity for	\$ 350,262
		Total	\$ 527,817

Complementary Facilities

	Lead Agency/Partners	Estimated Facility Cost	Estimated Installation		Indica	tive Order of Costs
Wayfinding and Signage Implementation (including Share	К				\$	15,000
the Path messages)				Total	\$	15,000

		Lead Agency/Partners	Contri	ndicative bution from of Darwin
Share the Road	Campaign Delivery	Northern Territory Government/City of Darwin	\$	10,000
Ride to the Markets	Campaign Delivery	City of Darwin, Bicycle Groups and Market Organisers	\$	10,000
Ride to Work Day Activities/Breakfast	Ongoing (existing budget)	City of Darwin/Northern Territory Government and partners such as Bicycle Network	Exis	ting Budget
Encouragement Initiatives	Promotional Budget	City of Darwin	\$	7,500
Rider Surveys	Surveys Super Tuesday/Sunday		\$	7,500
		Total	\$	35,000

YEAR 4

2019/2020

LTCWP Allocation

\$ 586,484

Infrastructure Projects

Project	Details	Const	truction Cost
Daly Street (Stage 3)	Provide on-road cycle lanes and improve conncectivity for using off-road space	\$	511,484
	Total	\$	511,484

Complementary Facilities

	Lead Agency/Partners	Estimated Facility Cost	Estimated Installation		Indica	tive Order of Costs
Wayfinding and Signage Implementation (including Share					\$	20,000
the Path messages)				Total	¢	20,000

		Lead Agency/Partners	Indicative Contribution from City of Darwin
"Ride Darwin Bikefest" Event (possibly coordinated with Gran Fondo)	Concept Development and Delivery	City of Darwin/Northern Territtory Government and a range of stakeholders	\$ 20,000
Share the Road	Campaign Delivery	Northern Territory Government/City of Darwin	\$ 10,000
Ride to the Markets	Campaign Delivery	City of Darwin, Bicycle Groups and Market Organisers	\$ 10,000
Ride to Work Day Activities/Breakfast	Ongoing (existing budget)	City of Darwin/Northern Territory Government and partners such as Bicycle Network	Existing Budget
Encouragement Initiatives	Promotional Budget	City of Darwin	\$ 7,500
Rider Surveys	Super Tuesday/Sunday	City of Darwin	\$ 7,500
		Total	\$ 55,000

YEAR 5

2020/2021

LTCWP Allocation

\$ 595,282

Infrastructure Projects

Project	Details	Constr	uction Cost
Daly Street (Stage 4)	Provide on-road cycle lanes and improve conncectivity for using off-road space	\$	250,000
Dinah Beach Road Shared Path	Completion of shared path from Dinah Beach Road to Stuart Highway	\$	222,282
East Point Shared Path	Path upgrade to address issues identified during audit	\$	48,000
	Total	\$	520,282

Complementary Facilities

	Lead Agency/Partners	Estimated Facility Cost	Estimated Installation		Indica	tive Order of Costs
Wayfinding and Signage Implementation (including Share					\$	30,000
the Path messages)				Total	¢	30,000

		Lead Agency/Partners	Indicative Contribution from City of Darwin
"Ride Darwin Bikefest" Event (possibly coordinated with Gran Fondo)	Concept Development and Delivery	City of Darwin/Northern Territtory Government and a range of stakeholders	\$ 20,000
Share the Road	Campaign Delivery	Northern Territory Government/City of Darwin	\$ 12,500
Ride to the Markets	Campaign Delivery	City of Darwin, Bicycle Groups and Market Organisers	\$ 12,500
Ride to Work Day Activities/Breakfast	Supplementary Funding to Existing CoD Budget	City of Darwin/Northern Territory Government and partners such as Bicycle Network	\$ 5,000
Encouragement Initiatives	Promotional Budget	City of Darwin	\$ 12,500
Rider Surveys	Super Tuesday/Sunday	City of Darwin	\$ 7,500
		Total	\$ 45,000

ENCL: ENVIRONMENT & INFRASTRUCTURE

YES COMMITTEE/OPEN AGEND

AGENDA ITEM: 10.1.4

CAR PARKING WITHIN THE ROAD RESERVE - SECTION 5394 (80) WINNELLIE ROAD, WINNELLIE

Presenter: Manager Technical Services, Nadine Nilon

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to seek endorsement from Council for the verge adjacent to Section 5394 (80) Winnellie Road, Winnellie, to be utilised for additional public car parking.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

2 Vibrant, Flexible and Tropical Lifestyle

Outcome

2.1 Improved access and connectivity

Key Strategies

2.1.4 Provide parking facilities to meet community needs

KEY ISSUES

- The developers of Section 5394 and 5393 Winnellie Road have requested to construct 15 car parking bays on the Winnellie Road verge.
- There is existing on-street car parking along both sides of Winnellie Road.
- As part of the works, the developer has requested the removal of a tree which is in poor condition and close to the overhead power line. Council officers have identified the requirement to remove another tree of similar condition.
- Council officers recommend endorsement of the proposal subject to:
 - o parking bays reduced to 14 and realigned.
 - the verge of both Winnellie Road and Bombing Road are required to be irrigated by the property owners, and
 - o a more suitable tree to be planted along the verge of Winnellie Road.

REPORT NUMBER: 16TS0105 NN:tz

SUBJECT: CAR PARKING WITHIN THE ROAD RESERVE - SECTION 5394 (80)

WINNELLIE ROAD, WINNELLIE

RECOMMENDATIONS

THAT it be a recommendation to Council:-

A. THAT Report Number 16TS0105 NN:tz entitled Car Parking Within The Road Reserve - Section 5394 (80) Winnellie Road, Winnellie, be received and noted.

- B. THAT Council approve the construction of fourteen (14) on-street public parking bays within Winnellie Road, Winnellie, adjacent to Section 5393 and Section 5394, subject to the following conditions:
 - a. The design and construction be undertaken in accordance with City of Darwin Policy Number 003 Car Parking General (Design Criteria) and to the satisfaction of the Chief Executive Officer, City of Darwin, at no cost to Council.
 - b. The on-street car parking bays will be owned and managed by City of Darwin as public car parks.
 - c. The public on-street car parking will not be set aside or reserved for any development within Section 5393 and Section 5394 Winnellie Road, Winnellie or any subsequent consolidated allotment.
 - d. The defects and maintenance period will be for a period of 24 months from the date of the practical completion as approved by the Chief Executive Officer, City of Darwin.
- C. THAT City of Darwin pursuant to Section 32(2) of the local Government Act 2008 (as amended) hereby delegates to the Chief Executive Officer, the power to finalise the design, construction and final acceptance by the Council of public on-street car parking and verge landscaping within Winnellie Road and Bombing Road adjacent to Section 5393 and Section 5394.

BACKGROUND

Winnellie Road has large verges of approximately 14 metres on both sides, providing sufficient space for car parking, footpath and vegetation and in many locations there are existing public car parking spaces on both sides of the road. The existing parking adjacent to other properties has been constructed by developers and owners of the individual lots to increase the availability of parking to customers.

The subject site is located on the corner of Winnellie Road and Bombing Road and is comprised of two lots. Section 5394 and Section 5393 are under the same ownership and are being developed as a single lot and there is a current Development Application to consolidate the lots.

The verges along Winnellie Road and Bombing Road are currently unirrigated and sparsely vegetated and there is a footpath in good condition along the Winnellie

REPORT NUMBER: 16TS0105 NN:tz

SUBJECT: CAR PARKING WITHIN THE ROAD RESERVE - SECTION 5394 (80)

WINNELLIE ROAD, WINNELLIE

Road frontage of the lots. A couple of the existing trees adjacent to the overhead power lines along Winnellie Road are considered to be of poor health and in an inappropriate location for the species type.

This report assesses the suitability of the proposed parking on the Winnellie Road verge.



Section 5394 and Section 5393 Winnellie Road

DISCUSSION

The developers of Section 5394 and Section 5393 Winnellie Road have approached the City of Darwin requesting to develop the verge adjacent to their property along Winnellie Road (Attachment A). The developer proposes to construct 15 car parking bays and to remove an existing tree that is close to the existing overhead power lines. The developers do not intend to provide any irrigation of the verge or additional landscaping beyond the proposed turf.

Council Officers consider it appropriate for the proposed tree and an additional tree to be removed as they are in close proximity to the overhead power lines and are considered to be of poor health. A number of trees will be retained providing amenity and shade.

Council Officers recommended that if approved the number of bays is reduced to 14 and realigned to provide better protection and space to the existing trees.

The existing footpath along Winnellie Road will be retained as it is in good condition and there is no impact to it from this work.

REPORT NUMBER: 16TS0105 NN:tz

SUBJECT: CAR PARKING WITHIN THE ROAD RESERVE - SECTION 5394 (80)

WINNELLIE ROAD, WINNELLIE



If approved City of Darwin Officers consider that the verge along Bombing Road and Winnellie Road should be irrigated and two trees planted along Winnellie Road or Bombing Road in suitable locations to beautify the area and soften the impact of the parking.

It is recommended that the proposal for the parking is approved subject to the car parking being reduced to 14 bays and the bays realigned, the verges of Bombing Road and Winnellie Road being irrigated and suitable trees planted.

CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

Senior Technical Officer Parks and Reserves

In preparing this report, the following External Parties were consulted:

Walbridge and Gilbert

POLICY IMPLICATIONS

The following Council Policies apply to these issues:

- Policy Number 003 Car Parking, General (Design Criteria)
- Policy Number 050 Trees on Verges Conservation
- Policy Number 051 Verges

BUDGET AND RESOURCE IMPLICATIONS

All the work associated with the car parking, irrigation and tree removal will be at the cost of the developer and therefore no cost to the City of Darwin.

REPORT NUMBER: 16TS0105 NN:tz

SUBJECT: CAR PARKING WITHIN THE ROAD RESERVE - SECTION 5394 (80)

WINNELLIE ROAD, WINNELLIE

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

As a large section of the verge along Winnellie Road has already been developed to include public parking there is no risk of setting a precedent as this has already occurred.

The design of the car parking will be in accordance with Australian Standards and Austroads Guidelines.

ENVIRONMENTAL IMPLICATIONS

There is minimal impact to the environment as the two trees to be removed are considered of poor health and will be replaced by trees in more appropriate locations.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

NADINE NILON
MANAGER TECHNICAL
SERVICES

LUCCIO CERCARELLI GENERAL MANAGER INFRASTRUCTURE

For enquiries, please contact Nadine Nilon on 8930 0417 or email: n.nilon@darwin.nt.gov.au.

Attachments:

Attachment A: Incoming correspondence – Wallbridge & Gilbert – Proposed

On-street Car Parking.

19 April 2016

Reference: 150244

City of Darwin

Attn: Mr James Whyte

GPO Box 84 Darwin NT 0801

Via email: J.Whyte@darwin.nt.gov.au

Dear James,

Lot 5394 Winnellie Road - Proposed On-Street Car Parking

This letter has been prepared on behalf of Andrew Andreou and Peter Politis of Andawin Pty Ltd. The purpose of this letter is to request City of Darwin approval to utilise the verge area at Lot 5394 Winnellie Road, Winnellie for on-street car parking. The client has requested the verge to be used for car parking such that it is convenient for potential customers to access the lot and to enhance the frontage, similar to other sections of Winnellie Road.

The proposed design (enclosed) consists of 15 car parks located within the verge in accordance with *AS2890.1 Parking Facilities (User Class 3)*. The design intent has been to maintain a majority of the existing established trees within the verge; however, we are proposing to remove a single eucalypt that happens to be within 3m of overhead power lines, refer **Figure 1**. Three existing trees are to remain that will maintain the verge aesthetics. The existing footpath and two existing power poles are to remain in their current location. Additionally, a concrete invert has been detailed along the Winnellie Road end of the car parks to direct stormwater towards the existing three bay SEP (side entry pit).



Figure 1- Tree to be removed location

The remaining verge area, which is currently sparsely vegetated, is proposed to be turfed with Paspalum Notatum (Bahia Grass). This variety was selected as it is hardy and only requires minimal watering. The verge area could be maintained with occasional hand watering during the dry season, by the occupants of Lot 5394.

Based on information provided by *Dial Before You Dig* the following underground services are anticipated within the verge:

- Communications conduit
- Underground HV conductors
- 300MSCL water main
- Telstra NBN cable/duct/trench
- Telstra direct buried cable
- Optus optic fibre in other utility conduit
- AMCOM telecommunications conduit

It is proposed that the civil contractor would locate and pot hole all existing services and liaise with each service provider as required prior to construction to ensure potential clashes and/or damage to existing services are avoided.

Please do not hesitate to contact me should you would like to discuss further.

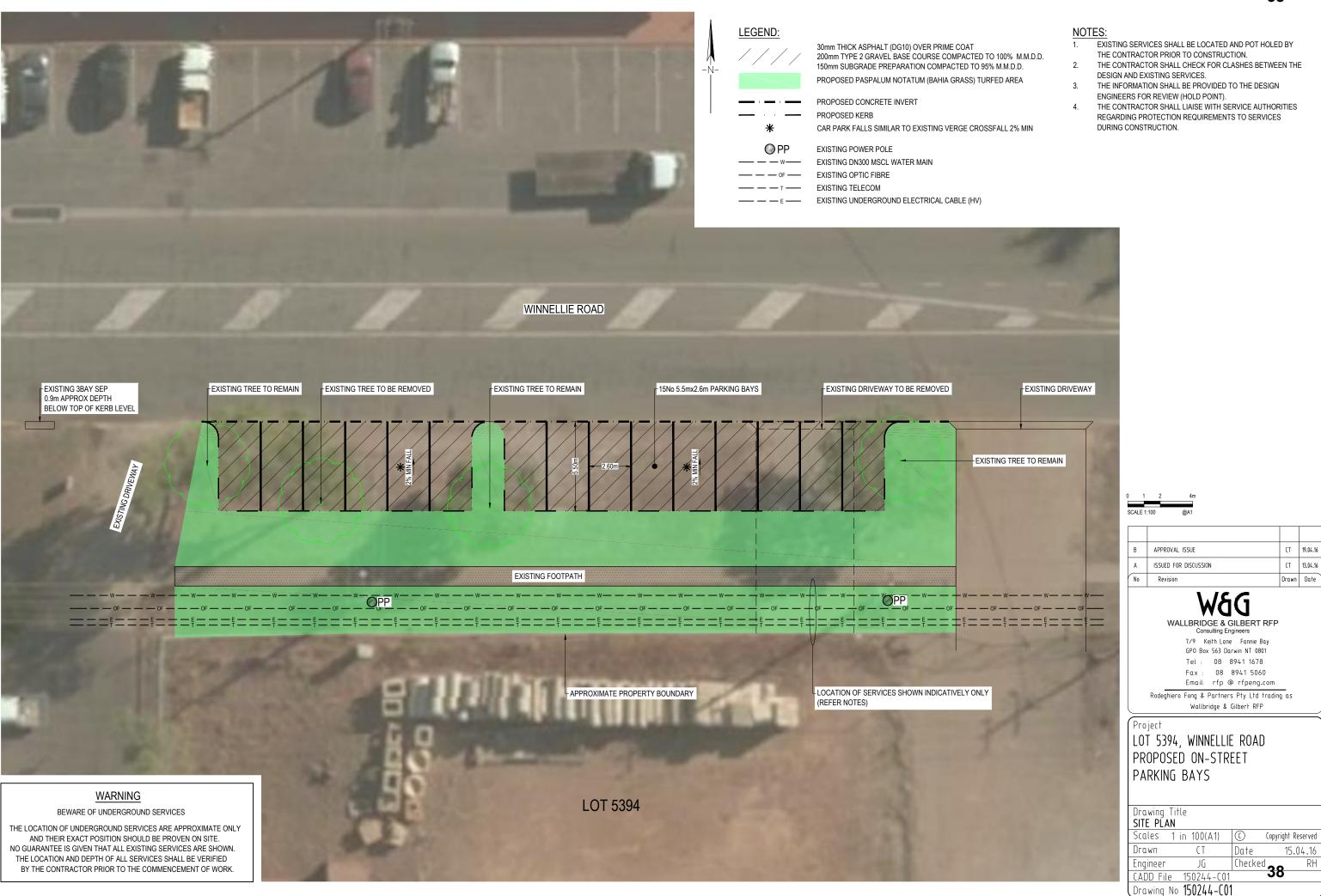
Yours sincerely,

Rory Hinton

Senior Civil Engineer

Wallbridge & Gilbert RFP

Encl: Site Plan



ENCL: ENVIRONMENT & INFRASTRUCTURE

YES COMMITTEE/OPEN AGENDA ITEM: 10.1.5

TREE RISK MANAGEMENT - ALLEN PARK (LOT 2868), FANNIE BAY

REPORT No.: 16TS0104 KS:jg COMMON No.: 3263828 DATE: 24/05/2016

Presenter: Manager Infrastructure Maintenance, Kerry Smith

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to seek direction from Council on the management of a Mahogany tree in Allen Park, Fannie Bay.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

2 Vibrant, Flexible and Tropical Lifestyle

Outcome

2.2 A sense of place and community

Key Strategies

2.2.3 Improve the landscaping, streetscape, infrastructure and natural environment

KEY ISSUES

- Allen Park in Fannie Bay was selected for installation of a shade structure over the playground as part of Council's Capital program.
- Prior to the shade installation an arboreal assessment was undertaken on all trees in the park.
- A large Mahogany tree overhanging the playground was identified as a high risk to playground users.
- A decision was made to eliminate the risk by removing the tree.
- Local residents have raised concerns about the removal of the tree and in particular the disruption this would cause to a Brahminy Kites (*Haliastur indus*) nest in the tree.
- An additional arboreal assessment and advice on the Brahminy Kites was sought.
- A Risk Management Plan, including significant pruning has been developed that enables retention of the tree as an alternative to removal.

REPORT NUMBER: 16TS0104 KS:jg

SUBJECT: TREE RISK MANAGEMENT - ALLEN PARK (LOT 2868), FANNIE BAY

RECOMMENDATIONS

THAT it be a Recommendation to Council:-

A. THAT Report Number 16TS0104 KS:jg entitled Tree Risk Management - Allen Park (Lot 2868), Fannie Bay, be received and noted.

B. THAT Council retain the Mahogany tree adjacent to the playground, subject to significant pruning (estimate 40% canopy reduction) and quarterly inspections to reduce risk to Allen Park users.

or

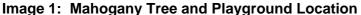
B. THAT Council remove the Mahogany tree in Allen Park adjacent to the playground and replant new trees in the park.

BACKGROUND

Allen Park is a neighbourhood park located in Fannie Bay. It has a playground within the park that has been listed for installation of a shade cover as part of Council's Playground Shade Capital program in the current financial year.

The park is a local park and in accordance with its designation has equipment and infrastructure to service that need. The installation of shade forms part of Council's program to shade all play equipment within the municipality.

The playground at Allen Park was installed several years ago, to replace existing old equipment, following community consultation. The equipment is adjacent to, and partially beneath, the canopy of a large Mahogany tree (*Khaya senegalensis*),





REPORT NUMBER: 16TS0104 KS:jg

SUBJECT: TREE RISK MANAGEMENT - ALLEN PARK (LOT 2868), FANNIE BAY

An arboreal risk assessment was undertaken recently on all trees within the park. This risk assessment included the level of risk posed by the Mahogany tree adjacent to the playground and the impact of the construction of the shade structure on the root zone of the tree. The arboreal inspection showed a high risk rating for the Mahogany over the playground, due to its habit, its history and its location directly adjacent to, and over, the playground. A decision was made to remove the tree based on completely eliminating risk to ensure community safety.

Council undertook its normal process of informing the community of the tree removal, being Level 1 – Inform.

A Brahminy Kite nest in the Mahogany tree has also been identified.

Council received a request from a local resident requesting the decision, to remove the tree, be reassessed (Attachment A).

All works within Allen Park have been suspended subject to Council's consideration of the issue.

Council has sought further independent advice and further assessments relating to the tree and the Brahminy Kite.

DISCUSSION

It should be noted that identifying and managing risk associated with trees is still a subjective process although the scientific understanding of trees and how they grow and fail has increased dramatically in recent times.

Advice has been sought from the Wildlife Unit of the Parks and Wildlife Commission of the Northern Territory regarding the Brahminy Kite. The following conclusions have been reached:

- 1. The best outcome for the birds is to remain in the tree with minimal disturbance, this option allows for pruning and maintenance of the tree
- 2. Should the decision to remove the tree go ahead, it is highly recommended to wait until the breeding season is complete (approximately four months from time of nesting) May 2016. Nest inspection prior to tree removal to confirm all young have fledged to be undertaken. It may be possible to relocate the bird nest to a nearby tree.

An additional visual tree assessment was undertaken of the African Mahogany tree and a number of Casuarina trees, in order to determine if there was an acceptable alternate management plan. The inspection revealed that if the following actions are undertaken to the Mahogany tree the failure potential would shift from somewhat likely to unlikely and the risk assessment to low. The actions being:

- remove 2 major scaffold limbs,
- remove hangers / dead wood,
- remove any epicormic branches with weak attachments,
- prune to AS 4373-2007,

REPORT NUMBER: 16TS0104 KS:jg

SUBJECT: TREE RISK MANAGEMENT - ALLEN PARK (LOT 2868), FANNIE BAY

monitor by inspection every 12 weeks.

Attachment B indicates two major limbs that require removal and would reduce the tree canopy.

In relation to the Casuarina trees it was recommended that:

- remove overhanging limbs,
- remove dead wood,
- monitor by inspection every 12 weeks.

It has been noted that the actions will result in the loss of canopy and could be as much as 40% but the Mahogany could remain with a low risk identified.

The options Council could consider are as follows:

Option 1 – Tree Pruning and Management

Undertake works as identified in this report noting that a low level of risk will remain and that there will be significant canopy reduction of the Mahogany tree. Costs are estimated to be \$8000 for initial pruning and \$3000 for quarterly inspections plus the cost of ongoing pruning.

Option 2 – Tree Removal

That Council proceed with removing the tree and replant new trees within the Park. Costs are estimated to be \$12000 for removal, \$500 for replantings and \$3000 for quarterly inspections plus the cost of ongoing pruning.

This option eliminates the risk of the Mahogany tree but will impact on local amenity whilst new trees mature over a long time frame.

Option 3 – Tree Pruning, Management and Relocate Play Equipment

This option is similar to Option 1 with the addition of relocating the playground within the Park to further reduce risk. The trees will still require action and management as the park is accessible to users and it currently presents a risk to the community.

CONSULTATION PROCESS

In accordance with standard practice, on 11 April 2016 Council wrote to residents in the vicinity of Allen Park to inform of the planned tree removal and tree remedial works.

In preparing this report, the following City of Darwin officers were consulted:

- Team Leader Capital Works
- Manager Climate Change and Environment
- Team Coordinator Parks and Reserves

In preparing this report, the following External Parties were consulted:

- Arafura Tree Services
- Bill Sullivan Consulting Arborist

REPORT NUMBER: 16TS0104 KS:jg

SUBJECT: TREE RISK MANAGEMENT - ALLEN PARK (LOT 2868), FANNIE BAY

Parks and Wildlife Commission of the Northern Territory

POLICY IMPLICATIONS

Nil.

BUDGET AND RESOURCE IMPLICATIONS

The following costs have been estimated for each option:

Option 1: \$8000 for initial pruning activity of all trees identified.

\$3000 per annum for quarterly inspection of Park.

Option 2: \$12000 for removal of African Mahogany and pruning of other trees.

\$500 to plant and establish a number of new trees. \$3000 per annum for quarterly inspection of park.

Option 3: \$8000 for initial pruning activity of all trees identified.

\$3000 per annum for quarterly inspection of park. \$15000 to relocate play equipment within park.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

Decisions whether to remove trees or not require serious and careful consideration of risk.

Without complete removal of the tree there will always be an element of risk which has been identified as low at this point in time if appropriate management actions are taken.

All trees have a risk of failure and it is noted that every tree will eventually fail. As trees increase in size, mass and maturity the risk of failure increases. Tree Risk Assessments can assist in reducing risk.

There is a perception in the community that Mahogany trees are inherently dangerous.

ENVIRONMENTAL IMPLICATIONS

Avoiding removal of the Mahogany tree and therefore no disruption to the nesting birds within the tree achieves a positive environmental outcome.

Preservation of this established habitat tree in Allen Park delivers a good environmental outcome for the birds nesting and other biodiversity connected with this tree.

REPORT NUMBER: 16TS0104 KS:jg

SUBJECT: TREE RISK MANAGEMENT - ALLEN PARK (LOT 2868), FANNIE BAY

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

KERRY SMITH MANAGER INFRASTRUCTURE MAINTENANCE

LUCCIO CERCARELLI GENERAL MANAGER INFRASTRUCTURE

For enquiries, please contact Kerry Smith on 89300654 or email: k.smith@darwin.nt.gov.au.

Attachments:

Attachment A: Correspondence from local resident. **Attachment B:** Photo of Mahogany limbs to be removed.

Mr Brendan Dowd Chief Executive Officer City of Darwin darwin@darwin.nt.gov.au

8th May 2016

SAVE THE ALLEN PARK TREE - MOVE THE PLAYGROUND NOT THE TREE

Dear Brendan

Thank you again for your time and attention to this important community issue.

As discussed in our meeting on 27th April, we object to the proposed removal of this tree and the construction of more playground infrastructure.

We believe the decision to further invest in this neighborhood park is unfounded and imprudent. The tree is of far more value and amenity to the local community and park users than more underutilized playground equipment.

We would like to make a presentation, in person, to Council's Environment and Infrastructure Committee meeting on 24th May.

Our objection to the removal of the tree and additional investment in more playground equipment in Allen Park is as follows:

- 1. **No consultation or consideration of broader impacts**: council has not consulted the local community or engaged with residents about a decision that impacts a valuable community and environmental asset, and the overall amenity of the area. We have talked to most of our neighbours and nearby residents and they echo our views
- 2. **Nesting Brahminy Kites**: the tree is home to a pair of Brahminy Kites who have nested in it for more than 10 years. These protected raptors should not have their long-term home destroyed
- 3. **The tree is not a safety risk if well maintained**: we don't believe the tree is a risk to park users. The tree has been successfully and safely maintained for many years through regular inspections and pruning. With continued pruning and inspection the tree will continue to provide valuable shade, habitat and amenity
- 4. **Shade structure will encourage itinerancy and anti-social behaviour**: placing shade sails over the park will encourage anti-social behaviour, increased littering and 'camping', all of which pose far greater safety risks to surrounding residents than the tree. Itinerancy is already a problem in the area and having a permanent shelter in the park will make these issues worse

- 5. **Unnecessary expenditure/infrastructure**: Allen Park is a quiet neighbourhood park whose playground equipment is seldom used. Further spend on already underutilised playground infrastructure is a waste of funds. This money could be better spent on parks with higher visitation or no natural shade (it's not a destination or district park). The tree is a far greater asset to the community than the playground equipment. Move the playground before the tree
- 6. **No parking or supporting infrastructure**: Allen Park has inadequate safe parking, no toilets, or other facilities to support a destination park. Congesting a blind corner and narrow streets with more parked cars is a bad idea and significant safety risk.

This tree is a valuable asset to the local community, environment and wildlife and should not be removed. Funds allocated for the Allen Street playground upgrade could be better spent on district parks with higher visitation and better infrastructure and parking, such as the park near the Fannie Bay shops.

We believe that ongoing regular inspections and maintenance will ensure this tree continues to provide amenity, shade and habitat for many years to come.

We look forward to attending the committee meeting on 24th May.

ATTACHMENT₄₇B



Mahogany Tree showing recommended pruning cut positions.

OPEN SECTION

E&I5/8

Environment & Infrastructure Committee Meeting - Tuesday, 24 May 2016

10.2 OFFICERS REPORTS (RECEIVE & NOTE)

Tuesday, 24 May 2016 E&I5/8

10.2.1

ENCL: ENVIRONMENT & INFRASTRUCTURE

YES COMMITTEE/OPEN

AGENDA ITEM:

CLIMATE CHANGE & ENVIRONMENT QUARTERLY REPORT JANUARY - MARCH 2016

REPORT No.: 16TC0011 SG:nj COMMON No.: 1792647 DATE: 24/05/2016

Presenter: Manager Climate Change & Environment, Shenagh Gamble

Approved: Executive Manager, Mark Blackburn

PURPOSE

The purpose of this report is to inform the Committee of progress towards the Climate Change & Environment program during the third quarter, January – March 2016.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

3 Environmentally Sustainable City

Outcome

3.1 Council's carbon footprint reduced

Key Strategies

3.1.1-Reduce Council's greenhouse gas emissions

KEY ISSUES

- This report is presented in a new format, reflecting the 2015/2016 municipal plan
- Progress is reported to be on track
- Electricity consumption decreased in this quarter compared with the previous quarter and compared with the equivalent time last year.
- Water consumption was lower this quarter than the previous quarter, in keeping with annual patterns of consumption
- Fauna assessment of East Point Reserve and Nightcliff Foreshore will be conducted in the next quarter
- Solar PV installation was awarded for 58kWh systems to be installed at Nightcliff and Casuarina Pools

REPORT NUMBER: 16TC0011 SG:nj

SUBJECT: CLIMATE CHANGE & ENVIRONMENT QUARTERLY REPORT -

JANUARY TO MARCH 2016

RECOMMENDATIONS

THAT the Committee resolve under delegated authority:-

THAT Report Number 16TC0011 SG:nj entitled Climate Change & Environment Quarterly Report – January to March 2016, be received and noted.

BACKGROUND

This report provides an update on progress against the Climate Change & Environment program profile as listed in the 2015/2016 Municipal Plan for the period January – March 2016.

A six month progress report against the municipal plan was provide to Council at the 2nd Ordinary meeting of 23 February 2016. At this meeting it was resolved:

THAT Report Number 16TC0010 SJ:mb entitled Strategic and Municipal Plan - 6 Month Progress Report, be received and noted.

DECISION NO.21\4142

Report No. 16TC0010 SJ:mb

DISCUSSION

The key functions and outputs of the Climate Change and Environment team include:

- Manage and implement the City of Darwin Climate Change Policy and Action Plan 2011-2020 (more detail is given below)
- Manage Council's response regarding legislation, government policy and land use strategy as it affects environmental management and climate change outcomes
- Manage and implement the East Point Reserve Biodiversity 5 Year Plan (2014-2018)
- Manage Council's strategies for biodiversity and conservation management
- Foster environmentally sustainable behaviour in the Darwin community
- Coordinate the improvement of the environmental performance of Council's operations
- Monitor stormwater and waterway water quality
- Advocate to the Territory Government and comment on Development Applications to foster environmentally sustainable development

Progress against these outputs is provided in Attachment A to this report.

CCAP Outcome1 : Council's energy consumption is reduced

REPORT NUMBER: 16TC0011 SG:nj

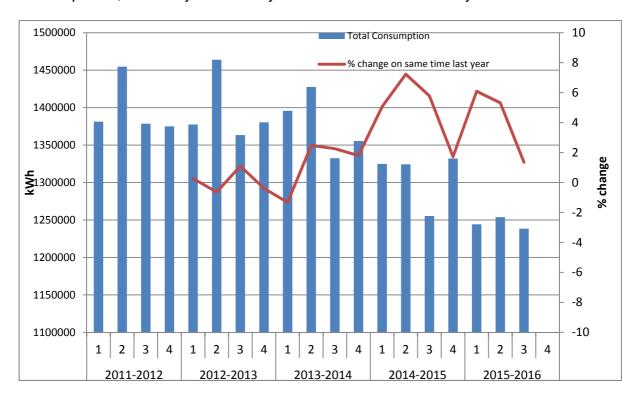
SUBJECT: CLIMATE CHANGE & ENVIRONMENT QUARTERLY REPORT -

JANUARY TO MARCH 2016

Performance Measure: Electricity consumption is reduced

Figure 1 below shows total electricity use for the City of Darwin. The graph includes the percentage of change based on the same time in the previous year.

In this quarter, electricity reduced by 1% on the same time last year.



In this period, a tender for the installation of 58kW solar PV systems at each of the Nightcliff and Casuarina Pools was awarded to Country Solar. The systems at these pools are expected to generate 464kWh of electricity daily, saving council around \$49,000 annually.

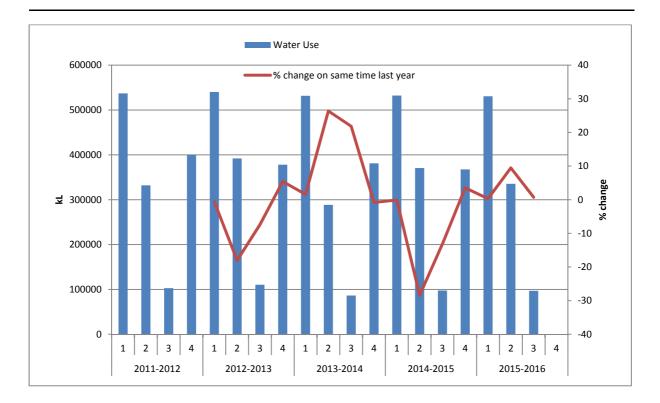
CCAP Outcome 2: Water consumption is reduced

Figure 2 below shows a consistent annual pattern of water consumption across all sites. It is worth noting that although this year's wet season received less than average rainfall a water consumption reduction of 9% and 1% for the second and third quarters respectively was achieved.

REPORT NUMBER: 16TC0011 SG:ni

SUBJECT: CLIMATE CHANGE & ENVIRONMENT QUARTERLY REPORT -

JANUARY TO MARCH 2016



CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

Manager Strategy & Outcomes

In preparing this report, the following External Parties were consulted:

Planet Footprint

POLICY IMPLICATIONS

Activities described in this report are consistent with the actions and outcomes of the Climate Change & Environment (2011-2015) and City of Darwin Policy No. 59 Climate Change.

BUDGET AND RESOURCE IMPLICATIONS

All activities have been completed within operational budgets.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

Nil

ENVIRONMENTAL IMPLICATIONS

REPORT NUMBER: 16TC0011 SG:nj

SUBJECT: CLIMATE CHÁNGE & ENVIRONMENT QUARTERLY REPORT -

JANUARY TO MARCH 2016

Activities described in this report are inherently beneficial to the environment.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

SHENAGH GAMBLE MANAGER CLIMATE CHANGE & ENVIRONMENT

MARK BLACKBURN EXECUTIVE MANAGER

For enquiries, please contact Shenagh Gamble on 89300530 or email: s.gamble@darwin.nt.gov.au.

Attachments:

Attachment A: Interplan Report: Climate Change & Environment Program

Attachment A

City of Darwin

PREMIUM Action and Task Progress Report

July 2015 - June 2016

Report Filters:

Date From :01-07-2015

Date To:30-06-2016

Section :Climate Change & Environment

Program Profile :Climate Change and Environment

Display Task: No Action Filter: Show All

Action Status

 Off Track
 100.0%

 Monitor
 0.0%

 On Track
 0.0%

 No Target
 0.0%

 Total:
 100.0%

Action Progress Against Targets



- 8 Actions reported on
- 0 At least 90% of action target achieved
- 0 Between 70 and 90% of action target achieved
- 8 Less than 70% of action target achieved
- 0 Actions with no target set

Office of the Chief Executive

Climate Change & Environment

STRATEGY: 3.1.1 Reduce Council's greenhouse gas emissions

Action	Responsibility	Action Status	Start Date	End Date	% Comp.	Target	% On Target
3.1.1.1 Coordinate the improvement of the environmental performance of Council's operations	Shenagh Gamble - Manager Climate Change & Environment	In Progress	01/07/2015	30/06/2016	75%	100%	000
Program Profile	Budget Type						
Climate Change and Environment	Operating						

ACTION PROGRESS COMMENTS

Six Monthly Update (July - December 2015)

Implementation of recommendations from the Deloittes Environmental System assessment continued in this period. Notably the development of Standard Operating procedures for environmental reporting and site inspections, environmental checklist, register of NT and Commonwealth legislation and clauses to be used in contractor and lease arrangements. These documents will be brought together into an Operational Environmental Management Plan.

Three Quarter Update (January – March 2016)

CCE staff are working with OHS staff based at the Operations Centre to include environmental conditions in Safe Working Methods Statements

STRATEGY: 3.2.1 Increased community understanding of climate change and environment issues and mitigation and adaption actions

Action	Responsibility	Action Status	Start Date	End Date	% Comp.	Target	% On Target
3.2.1.1 Manage and implement the City of Darwin	Shenagh Gamble - Manager	In Progress	01/07/2015	30/06/2016	75%	100%	
Climate Change Policy and Action Plan 2011-2020	Climate Change & Environment						
Program Profile	Budget Type						
Climate Change and Environment	Operating						

ACTION PROGRESS COMMENTS

Six Monthly Update (July - December 2015)

Key initiatives that have occurred in this six month period include: Solar PV installation at Bishop Street Operations Centre

Water audits (performed by Living Water Smart) undertaken at Casuarina Pool and Civic Centre Lunchtime seminar series, covering Sustainable House Day and Water efficient design Community tree planting day at East Point Reserve

Ongoing projects contribute to energy, waste and water reduction as well as enhancing biodiversity across the municipality.

Three Quarter Update (January – March 2016)

Electricity consumption decreased by 1% this quarter, compared with the same time last year.

Despite a significantly lower average rainfall this quarter, water consumption decreased by 1% this quarter compared with the same time last year.

The Northern Territory Government Flora and Fauna division has been engaged to undertake fauna assessment at East Point Reserve and Nightcliff Foreshore

Last Updated - 20/01/2016

Action	Responsibility	Action Status	Start Date	End Date	% Comp.	Target	% On Target
3.2.1.2 Foster environmentally sustainable behaviour in	Shenagh Gamble - Manager	In Progress	01/07/2015	30/06/2016	75%	100%	
the Darwin community	Climate Change & Environment						U .
Program Profile	Budget Type						
Climate Change and Environment	Operating						

ACTION PROGRESS COMMENTS

Six Monthly Update (July – December 2015)

Community initiatives this period include: Garage Sale Trail

Backyard Bird Count Sustainable House Forum Water Efficient Design Forum Community Tree Planting Day

12 Sustainable Days of Christmas

Progress ongoing

Three Quarter Update (January – March 2016)

The quarter from January through to March is typically a quiet time for community engagement. However initiatives include:

- Discussions with community members about developing information signs regarding shorebirds at Nightcliff Foreshore
- Participate in discussion regarding Water Sensitive Cities, a workshop hosted by the CRC for Water Sensitive Cities

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- Deliver initiatives under the Darwin Bike Plan education and engagement plan, including working with stakeholders to develop Share the Roads and Share the Paths education material
- Develop request for quotation for Wayfinding Strategy (including cycling wayfinding)

 The Climate Change Challenge (key schools engagement activity) will occur on 1 June, and planning is well underway with schools across Darwin actively involved

STRATEGY: 3.2.3 Lobby governments, developers and industry to undertake sustainable projects and behaviours

Action	Responsibility	Action Status	Start Date	End Date	% Comp.	Target	% On Target
3.2.3.2 Manage Council's response regarding	Shenagh Gamble - Manager	In Progress	01/07/2015	30/06/2016	75%	100%	
legislation, government policy and land use strategy as	Climate Change & Environment						•
it affects environmental management and climate							
Program Profile	Budget Type						
Climate Change and Environment	Operating						

ACTION PROGRESS COMMENTS

Six Monthly Update (July – December 2015)

the Climate Change & Environment team provides advice to development applications and input to government submissions as needed.

Three Quarter Update (January - March 2016)

Prepared and submitted comment on Northern Territory Government's Balanced Environment draft Strategy

Last Updated - 20/01/2016

Action	Responsibility	Action Status	Start Date	End Date	% Comp.	Target	% On Target
3.2.3.4 Advocate to the Territory Government and comment	Shenagh Gamble - Manager	In Progress	01/07/2015	30/06/2016	75%	100%	000
on Development Applications to foster environmentally	Climate Change & Environment						•
sustainable development							
Program Profile	Budget Type						
Climate Change and Environment	Operating						

ACTION PROGRESS COMMENTS

Six Monthly Update (July – December 2015)

Where appropriate, comment is provided on development applications and submissions provided to NT Government initiatives. For example, attended a briefing session regarding changes the NT Environmental Regulatory System prior to preparing comment on these changes.

Three Quarter Update (January - March 2016)

Comment was made on a number of development applications during this time.

STRATEGY: 3.3.1 Advocate for the conservation of natural systems

Action	Responsibility	Action Status	Start Date	End Date	% Comp.	Target	% On Target
3.3.1.1 Monitor stormwater and waterway water quality	Shenagh Gamble - Manager	In Progress	01/07/2015	30/06/2016	75%	100%	
	Climate Change & Environment						
Program Profile	Budget Type						
Climate Change and Environment	Operating						

ACTION PROGRESS COMMENTS

Six Monthly Update (July - December 2015)

Regular water quality monitoring continued through this period. As a result of this monitoring Lake Alexander was closed during the Christmas break due to high bacteria readings

Stormwater "first flush" sampling occurred at all 12 sites across the municipality.

Three Quarter Update (January – March 2016)

Stormwater wet season sampling was difficult during this period due to sporadic rainfall and few significant rain events.

No closures for Lake Alexander were required during this period.

Council has participated in the development of a Strategy for Integrated Monitoring and Research Program for the Darwin Harbour Region.

STRATEGY: 3.3.2 Increase biodiversity richness and abundance across Darwin

Action	Responsibility	Action Status	Start Date	End Date	% Comp.	Target	% On
3.3.2.1 Manage and implement the East Point Reserve	Shenagh Gamble - Manager	In Progress	01/07/2015	30/06/2016	75%	100%	
Biodiversity 5 Year Plan (2014-2018)	Climate Change & Environment						
Program Profile	BudgetType						
Climate Change and Environment	Operating						

ACTION PROGRESS COMMENTS

Six Monthly Update (July - December 2015)

the Climate Change & Environment and Parks & Reserves teams continue to work well to deliver the East Point Biodiversity Plan. Key activities this period include the community tree planting day, which for the first time directly targeted school groups. This event was very successful and productive and the same approach will be used for future community planting days.

Three Quarter Update (January – March 2016)

The nursery on site at East Point has been re-established with seed collection and propagation

CDU student research is ongoing including leaf litter assessments and assisting with planting both on community planting day and in Feb.

Staff have sighted three different individual monitors / goannas. This is important as it suggests there are several large reptiles present at East Point Reserve

Last Updated - 20/01/2016

Action	Responsibility	Action Status	Start Date	End Date	% Comp.	Target	% On
3.3.2.2 Manage Council's strategies for biodiversity and	Shenagh Gamble - Manager	In Progress	01/07/2015	30/06/2016	75%	100%	
conservation management	Climate Change & Environment						
Program Profile	Budget Type						
Climate Change and Environment	Operating						

ACTION PROGRESS COMMENTS

Six Monthly Update (July – December 2015)

An assessment of green spaces across the municipality has been undertaken. Climate Change & Environment are now working with Parks & Reserves team leaders to develop strategies for developing green infrastructure in each precinct.

Three Quarter Update (January - March 2016)

A request for quotation to undertake a fauna assessment at East Point Reserve and Nightcliff Foreshore received a number of high quality responses. The project was awarded to the Northern Territory Government Flora and Fauna division who are estimated to commence work in May 2016.

ENCL: ENVIRONMENT AND INFRASTRUCTURE

NO COMMITTEE /OPEN AGENDA ITEM: 10.2.2

STORMWATER DRAINAGE ISSUES IN HARNEY STREET, LUDMILLA

REPORT No.: 16TS0009 PC:jg COMMON No.: 2632033 DATE: 24/05/2016

Presenter: Manager Design Projects & Planning, Drosso Lelekis

Approved: General Manager Infrastructure, Luccio Cercarelli

PURPOSE

The purpose of this report is to provide information to Council on stormwater drainage flooding problems occurring in Harney Street, Ludmilla and other locations throughout the Darwin municipality and to present a proactive approach to dealing with such issues.

LINK TO STRATEGIC PLAN

The issues addressed in this Report are in accordance with the following Goals/Strategies of the City of Darwin 2012 – 2016 as outlined in the 'Evolving Darwin Towards 2020 Strategic Plan':-

Goal

2 Vibrant, Flexible and Tropical Lifestyle

Outcome

2.2 A sense of place and community

Key Strategies

2.2.3 Improve the landscaping, streetscape, infrastructure and natural environment

KEY ISSUES

- Council has requested a report on drainage issues within Harney Street, Ludmilla.
- This report provides information on drainage issues within Harney Street and also provides Council with information on how similar issues throughout the municipality are managed.

REPORT NUMBER: 16TS0009 PC:jg

SUBJECT: STORMWATER DRAINAGE ISSUES IN HARNEY STREET, LUDMILLA

RECOMMENDATIONS

THAT it be a recommendation to Council:-

A. THAT Report Number 16TS0009 PC:jg entitled Stormwater Drainage Issues in Harney Street, Ludmilla, be received and noted.

BACKGROUND

At the Ordinary Council Meeting held on 8 December 2015, Council resolved as follows:

20. GENERAL BUSINESS

20.4 <u>Drainage Issues in Harney Street. Ludmilla</u>

Common No. 2632033

(Knox/Young)

THAT a report be prepared on the drainage issues in relation to Harney Street, Ludmilla.

DECISION NO.21\4017 (08/12/15) Carried

Many stormwater drainage issues exist throughout the Darwin municipality, therefore this report also discusses stormwater drainage issues beyond the Harney Street, Ludmilla issue.

DISCUSSION

A significant rainfall event in late February 2015 resulted in road and private property flooding occurring in several areas throughout the municipality. One of these areas was Harney Street, Ludmilla.

Significant flooding problems were also reported at a number of other sites within the Darwin municipality after the February 2015 rainfall event.

Darwin's older suburbs in particular, have stormwater drainage networks that were designed for the density and standards of the time. These areas have since been subject to increasing densification over the years which has resulted in increased stormwater flows. These increased flows can create flooding issues, as these systems were not designed to cater for these changes in development and environmental conditions.

Council has adopted a proactive approach to stormwater drainage system analysis, where total drainage catchment networks are modelled. From these models and studies, network problems and upgrading solutions are identified and costed. Works are then prioritised, along with other identified works, based on a variety of considerations, such as risk, budget, impact and net benefit. Other works include

REPORT NUMBER: 16TS0009 PC:jg

SUBJECT: STORMWATER DRAINAGE ISSUES IN HARNEY STREET, LUDMILLA

minor issues identified and maintenance or reactive replacement works due to damage and infrastructure failure.

In some instances, a Developer Contribution Plan (DCP) is created in response to stormwater drainage issues within a total system to help fund the required stormwater system upgrading works. The basis and process of a DCP is subject to a current separate project.

Based on the age of systems and recorded issues, Council is undertaking its stormwater studies on a priority basis, commencing with older suburbs first, as they are considered to carry the most significant risk. Studies have been completed for the Darwin CBD and Stuart Park, with studies underway in Parap and Fannie Bay.

In considering all of the existing studies and identified works Council has programmed works for 2016/2017.

An initial investigation into Harney Street stormwater drainage issues has identified that there are inadequacies in the stormwater drainage system in the vicinity of Harney Street. However, without an analysis of the entire catchment, implementing a solution in Harney Street alone, is unlikely to address all flooding issues within the total suburb and may even result in adverse impacts elsewhere within the network.

Ludmilla and Larrakeyah have been identified as the suburban catchments for a comprehensive stormwater study in 2016/2017. This will allow Council to fully understand any issues requiring attention, how they should be treated and an implementation program that ensures appropriate allocation of funds and considers asset management requirements.

It is recommended that no works be undertaken in Harney Street in 2016/2017 whilst the study of the catchment occurs. Subject to the outcome of the study, any required works will be programmed within the Long Term Capital Works Program which will consider all priorities.

CONSULTATION PROCESS

In preparing this report, the following City of Darwin officers were consulted:

- Team Leader Design
- Manager Technical Services

POLICY IMPLICATIONS

The following Council Policies apply to these issues:

- Policy Number 055 Asset Management.
- Policy Number 069 Risk Management.
- Policy Number 040 Developer Contribution Plans.

REPORT NUMBER: 16TS0009 PC:jg

SUBJECT: STORMWATER DRAINAGE ISSUES IN HARNEY STREET, LUDMILLA

BUDGET AND RESOURCE IMPLICATIONS

The costs associated with the construction of stormwater drainage infrastructure upgrading works are typically of the order of hundreds of thousands to millions of dollars. Consequently, it is imperative that the identification of these projects be based on robust total stormwater drainage system studies, that these projects be prioritised and that mechanisms to help fund the works be developed, such as Developer Contribution Plans.

The estimated cost of a total suburb stormwater drainage investigation is in the order of \$100,000. The upgrade of stormwater drainage within Harney Street has not been funded within 2016/2017 and should be considered in future years following the completion of the catchment study.

RISK/LEGAL/LEGISLATIVE IMPLICATIONS

There is a risk that the residents/owners of properties affected by stormwater flooding may seek financial compensation for any future flood damage that may occur. Council is managing this risk by undertaking the necessary studies and applying sound asset management principles.

ENVIRONMENTAL IMPLICATIONS

Any reduction in flooding of private property and road reserves increases the safety and security environment of these areas.

COUNCIL OFFICER CONFLICT OF INTEREST DECLARATION

We the Author and Approving Officers declare that we do not have a Conflict of Interest in relation to this matter.

DROSSO LELEKIS

MANAGER DESIGN PROJECTS & PLANNING

LUCCIO CERCARELLI GENERAL MANAGER INFRASTRUCTURE

For enquiries, please contact Drosso Lelekis on 89300414 or email: d.lelekis@darwin.nt.gov.au.

OPEN SECTION

E&I5/9

Environment & Infrastructure Committee Meeting - Tuesday, 24 May 2016

11. INFORMATION ITEMS

Nil

- 12. GENERAL BUSINESS
- 13. CLOSURE OF MEETING

Tuesday, 24 May 2016 E&I5/9